

Techsol is proud to announce Qt Embedded for the TPC-43C Medallion Touch Screen Computer

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Techsol is now offering both Qt and Qt Embedded on its TPC#43C, a low carbon-footprint computer with a **Color TFT LCD and Touch panel** plus **Power-Over-Ethernet**, targeting Building Automation and factory HMI (Human-Machine Interface) applications. This standard, off-the-shelf, ARM-powered, wall-mount, product features:

- WqVGA (480x272) 4.3", Color, TFT LCD Panel in Landscape format, with 65,536 colors, adjustable **LED Backlight**, and **Touch panel**
- Powered by a standard **Medallion CPU Module** (an SA2410-650 is included) for flexibility, the 32-bit **ARM9 processor** features **32 kB of cache**, **64 MB of SDRAM**, and **128 MB or more of NAND flash**, plus a separate **NOR flash** for reliable bootloader and SW update options
- **Power-Over-Ethernet (POE) dramatically reduces installation costs.**
 - **Replace power cables with a single CAT 5 cable for both power and Ethernet.**
- **Power options:** 10 - 30 VDC or 7 - 24 VAC or **POE**
- **Low-power**, passive cooling enables **fanless operation**
 - Typical power consumption with **12 V** in, with LCD & Backlight ON is **< 200 mA @ 200 MHz** (full-speed)
 - To **reduce power consumption**, software can turn the **backlight ON/OFF** and control the **brightness**
- **Low-power, Real-Time Clock (RTC)** with Battery Backup included
- **Hidden Memory Card Connector** for Secure Digital (SD) and MultiMediaCard (MMC) (for user-upgradeable storage expansion)
- **Full-speed, USB Host ports** (USB Type A connectors) supports **Wireless Expansion**, such as **802.11** or **Bluetooth**
- **Fast Ethernet (10BaseT/100BaseTX)** interface with RJ-45 connector featuring integrated LED status indicators
- **all connections exit the rear**, unlike PC-based products whose connectors point into the drywall
- **SW-controlled beeper** with **frequency/tone control** are standard
- **RS232 serial interface** on optional DE-9 adapter to accelerate SW development
- Ships with the proven **Medallion Linux 2.6.3x plus drivers pre-installed.**
- **Dimensions:** Width: 178 mm, 7" Height: 100 mm, 3.95" Thickness: 9 mm, 0.4" from wall (Over all: 33 mm, 1.3")
- **Mounting:** This unit sits in a recessed hole in the wall or instrument panel. It is held in place by magnets which clamp to a wall bracket (supplied). It requires a recess of only about 1" (25mm).
- **GUI options include:**
 - Choice of **Qt on X** or **Qt Embedded**, for full PC compatibility
 - Linux **Framebuffer (FB)**, operating in 16-bit, 65,536-color mode
 - **X11 (Xorg)** on FB for standard Linux/Unix graphics
 - **FLTK** on X, for a full-featured, extensible, yet *free* GUI
 - **GTK+** on X, another option for PC compatibility
 - Ask about **Web Browser Support** as we offer a few options there

Although GTK+ has been the dominant embedded GUI for years, interest in Qt has grown since its acquisition and “liberation” by [Nokia](#). Many programmers want to use [Qt Creator](#) to develop their GUI APPs on PCs. To meet this demand, Techsol offers both Qt Embedded, which has a small memory footprint, and “Full Qt” which uses the X Window System (X), allowing other GUI apps (X clients) to run on the screen as well. Development kits are available with an assortment of GUIs and demo programs to match.

As for the TPC-43C, “The robust enclosure is made from recycled steel.”, said Brian Empey, P.Eng., CEO of Techsol. “It’s welded and then powder-coat painted for a durable finish. Compared to a plastic enclosure, this offers the advantages of sustainable materials and a reduced carbon footprint, as steel production consumes less energy than alloys or plastics.”

Pricing for units with all options except wireless & debug cable:

Order Quantity	Standard* Unit Price in \$
10	\$425
100	\$385
1,000	\$345
10,000	\$300 or less, contact us for a quote.

*Standard configuration includes 200 MHz processor speed; 64 MB SDRAM; 2 MB NOR FLASH; 128 MB SSD; other configurations are priced accordingly.

Every unit is tested running Linux before it ships! Single units of the TPC-43C are available as development kits with full SW development tools and support. Call for pricing. Development kits are available from stock. Production volumes are typically available in 6 to 8 weeks.

Embedded Engineering is the same all over the world. Engineers face the same challenges of having too much to do, and not enough time or money to do it with. Techsol's **Medallion** CPU modules address this issue and provide a solution that extends into the production stages of a product, not just the *proof-of-concept* stage like most SBCs.

Techsol's **Medallion** system is unique in the embedded computer world. The **Medallion** Single-board computer product line encompasses multiple CPUs, and different configurations with the same CPU. However, the pin-out and form-factor remain the same. There is one **Medallion** module that is best matched to your application.

By designing with the **Medallion** system, you are effectively **out-sourcing** your CPU design and Linux porting **with no up-front NRE fees!** That lets your team concentrate on the hardware and software portions of your product that your customers see. The result is that **you can create a higher-quality product in a fraction of the time (and cost) of designing**

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everything yourself from scratch! Plus, the **interchangeable modules extend product life-cycle times**.

For more details, or to request further information, please visit our Web site at [<medallionsystem.com>](http://medallionsystem.com), call 888 TECHSOL (888 832 4765) or 604 946 8324, or e-mail [<sales@techsol.ca>](mailto:sales@techsol.ca).

Techsol is headquartered in Delta, British Columbia, Canada, where the mighty Fraser River meets the Pacific Ocean.

See also

- [TPC-43C product page](#)
- [DevKits](#)